

Amendments

In accordance with 37 CFR §1.121, please amend the above-identified application as set forth below.

Amendments to the Claims:

Please amend the claims as set forth below:

1. (Currently amended) A fold down seat having an automatically actuating ergonomic support system comprising:

a seat bottom frame:

a seat back frame, operatively engaged with said seat bottom frame, said seat back frame being movable between a stowed position and an open ~~at least one other~~ position;

at least one ergonomic support mounted on one of said seat bottom frame or said seat back frame, said ergonomic support having a ~~retracted~~ flat position and at least one extended position; and

at least one traction cable having a sleeve and a wire disposed to slide axially through said sleeve, a first sleeve end and a first wire end being engaged with said at least one ergonomic support, a second sleeve end being engaged with one of said seat bottom frame or said seat back frame, and a second wire end being engaged with the other of said seat bottom frame or said seat back frame;

whereby movement of said seat back frame from said stowed position applies traction to said traction cable such that said traction cable moves said ergonomic support from said retracted position.

2. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 1 further comprising:

a seat bottom base;

at least one support member in elevating linkage with said seat bottom base and said seat bottom frame, said at least one support member mediating travel of said seat bottom frame between a flat position and an elevated position;

said second sleeve end being engaged with one of said seat bottom base or said seat bottom frame, and said second wire end being engaged with the other of said seat bottom base or said seat bottom frame;

whereby movement of seat bottom frame from said flat position applies traction to said traction cable such that said traction cable moves said ergonomic support from said retracted position.

3. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 2 wherein said support member is comprised of at least two pivoting legs, each of said legs being hingedly connected to each of said seat bottom base and said seat bottom frame.

4. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 1, wherein said ergonomic support includes any one of a lumbar support, a thigh support, a lateral bolster and a head support.

5. (Currently amended) The fold down seat having an automatically actuating ergonomic support system of claim 1~~claim 4~~, wherein said flat position and said extended

position respectively correspond with the stowed position and the open position of the seat, and wherein said extended position has a greater depth of space than said flat position~~lumber support is comprised of at least two bolsters.~~

6. (Currently amended) The fold down seat having an automatically actuating ergonomic support system of claim 1~~claim 5~~, wherein said ergonomic support is comprised of at least two bolsters and wherein said at least two bolsters pivot upon extension around at least one vertical member of said seat back frame.

7. (Currently amended) The fold down seat having an automatically actuating ergonomic support system of claim 6~~claim 5~~, further comprising lateral wires attached to each of said at least two bolsters.

8. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 7, further comprising a flexible wire array mountable on said seat back frame.

9. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 8, wherein said lateral wires are operatively engaged with said flexible wire array such that upon said extension of said bolsters, a portion of said flexible wire array is extended.

10. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 9, wherein said portion of said flexible wire array substantially corresponds to the lumbar spine of a seat occupant.

11. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 9, wherein said flexible wire array is disposed between said lateral wires and a seat occupant.

12. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 4, wherein said lumbar support is an archable pressure surface.

13. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 4, further comprising an archable pressure surface in addition to said at least two bolsters.

14. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 4, wherein said lumbar support is a scissors lumbar support.

15. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 4, wherein said thigh support is any one of at least one front thigh bolster and at least two side thigh bolsters.

16. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 15, wherein said at least one front thigh bolster pivots upon extension around a front member of said seat bottom frame.

17. (Original) The fold down seat having an automatically actuating ergonomic support system of claim 15, wherein said at least two side thigh bolsters pivot upon extension around two side members of said seat bottom frame.

18. (Canceled)

19. (Currently amended) An automatically actuating ergonomic support system for a fold down seat comprising:

at least one ergonomic support adapted to mount on one of a seat bottom frame or a seat back frame, said ergonomic support having a ~~retracted~~ flat position and at least one extended position; and

a traction cable having a sleeve and a wire disposed to slide axially through said sleeve, a first sleeve end and a first wire end being engaged with said ergonomic support, a second sleeve end being adapted to engage one of said seat bottom frame or said seat back frame, and a second wire end being adapted to engaged the other of said seat bottom frame or said seat back frame;

whereby movement of said seat back frame from a stowed position applies traction to said traction cable such that said traction cable moves said ergonomic support from said ~~retracted~~ flat position.

20. (Currently amended) The automatically actuating ergonomic support system for a fold down seat of claim 19, wherein said second sleeve end is attached to a pulley housing, said pulley housing being adapted to engage one of said seat bottom frame or said seat back frame, and said second wire end is attached to a pulley, said pulley operatively mounted in said pulley housing and said pulley being adapted to engage the other of said seat bottom frame or said seat back frame, whereby movement of said seat back frame from said stowed position applies traction to said traction cable such that said traction cable moves said ergonomic support from said ~~retracted~~ flat position.

21. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 19, wherein said ergonomic support includes any one of a lumbar support, a thigh support, and a head support.

22. (Currently amended) The automatically actuating ergonomic support system for a fold down seat of ~~claim 19~~claim 21, wherein said flat position corresponds with the stowed position of the seat and said extended position corresponds with the open position of the seat, and wherein said extended position has a greater depth of space than said flat position~~lumbar support is comprised of at least two bolsters.~~

23. (Currently amended) The automatically actuating ergonomic support system for a fold down seat of ~~claim 19~~claim 22, wherein said lumbar support is comprised of at least two bolsters and wherein said at least two bolsters pivot upon extension around at least one vertical support member of said seat back frame.

24. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 22, further comprising lateral wires attached to each of said at least two bolsters.

25. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 24, further comprising a flexible wire array mountable on said seat back frame.

26. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 25, wherein said lateral wires are operatively engaged with said flexible wire array such that upon said extension of said bolsters, a portion of said flexible wire array is extended.

27. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 26, wherein said portion of said flexible wire array substantially corresponds to the lumbar spine of a seat occupant.

28. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 26, wherein said flexible wire array is disposed between said lateral wires and a seat occupant.

29. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 22, wherein said lumbar support is an archable pressure surface.

30. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 22, further comprising an archable pressure surface in addition to said at least two bolsters.

31. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 22, wherein said lumbar support is a scissors lumbar support.

32. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 21, wherein said thigh support is any one of at least one front thigh bolster and at least two side thigh bolsters.

33. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 32, wherein said at least one front thigh bolster pivots upon extension around a front member of said seat bottom frame.

34. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 32, wherein said at least two side thigh bolsters pivot upon extension around two side members of said seat bottom frame.

35. (Original) The automatically actuating ergonomic support system for a fold down seat of claim 21, wherein said at least one head support pivots upon extension around a horizontal member of said seat back frame.

36. (Currently amended) A method of actuating an ergonomic support in a fold down seat comprising:

mounting an ergonomic support on one of a seat back frame or a seat bottom frame;
engaging said ergonomic support with a first end of a traction cable sleeve and a first end of a traction cable wire;
attaching a second end of said traction cable sleeve to one of said seat bottom frame or said seat back frame;
attaching a second end of said traction cable wire to the other of said seat bottom frame or said seat back frame; and
moving said seat between a folded position and an unfolded position.

37. (Currently amended) An automatically actuating ergonomic support for a fold down seat comprising:

ergonomic support means mounted on a seat back or a seat bottom, wherein said ergonomic support means comprise a flattened position and an extended position having a greater

depth of space than said flattened position, said flattened position and said extended position

respectively corresponding with a folded position and an unfolded position of said seat;

folding means between the seat bottom and the seat back;

actuating means engaged with the ergonomic support means, the seat back and the seat bottom such that unfolding ~~folding~~ the fold down~~up~~ seat actuates said ergonomic support means, thereby moving said ergonomic support means from said flattened position to said extended position.

38. (Currently amended) The fold down seat ergonomic support of claim 36 further comprising a horizontal backing rod.

39. (Currently amended) The fold down seat ~~having an automatically actuating ergonomic support of claim 36~~claim 1 further comprising an arm rest hingedly attached to ~~said side~~ seat back frame and operatively engaged with a second traction cable disposed to automatically present upon said seat back frame being opened.

40. (New) The automatically actuating ergonomic support of claim 36, wherein said ergonomic support device comprises a flattened position and an extended position having a greater depth of space than said flattened position, said flattened position and said extended position respectively corresponding with said folded position and said unfolded position of said seat.